

Title (en)
PARKING ASSISTANCE DEVICE

Title (de)
PARKHILFEVORRICHTUNG

Title (fr)
DISPOSITIF D'ASSISTANCE AU STATIONNEMENT

Publication
EP 3608188 A4 20210113 (EN)

Application
EP 18781228 A 20180328

Priority
• JP 2017077135 A 20170407
• JP 2018012688 W 20180328

Abstract (en)
[origin: EP3608188A1] An object of the present invention is to provide a parking assistance device for resetting a parking path when there is an obstacle on the parking path. A parking assistance device (1) of the present invention includes a pull-out path computing unit (11) that computes a pull-out path for pulling the vehicle (V) out of the parking space (20) based on information on the parking space and constraint conditions regarding vehicle behavior, a candidate connection position setting unit (12) that sets a plurality of candidate connection positions on the pull-out path, a reachable path computing unit (13) that computes a reachable path for allowing the vehicle to reach at least one of the candidate connection positions from the initial position of the vehicle, a parking path setting unit (14) that sets a parking path of from the initial position of the vehicle to the parking space by connecting the pull-out path and the reachable path, and a path resetting unit (15) that, when there is an obstacle on the parking path, computes a parking path of from the stop position (J0) of the vehicle to the parking space (20), and sets the computed parking path as a new parking path.

IPC 8 full level
B60W 30/06 (2006.01); **B60R 99/00** (2009.01); **B60W 30/095** (2012.01); **B60W 50/14** (2020.01); **B62D 6/00** (2006.01); **B62D 15/02** (2006.01); **G08G 1/14** (2006.01); **G08G 1/16** (2006.01); **B62D 101/00** (2006.01)

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Citation (search report)
• [A] JP 2007320433 A 20071213 - AISIN AW CO
• [A] WO 2013072134 A1 20130523 - BOSCH GMBH ROBERT [DE], et al
• See references of WO 2018186252A1

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DE102020128796A1

Designated contracting state (EPC)
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EP 3608188 A1 20200212; **EP 3608188 A4 20210113**; **EP 3608188 B1 20220608**; CN 110546055 A 20191206; CN 110546055 B 20220830; JP 2018176909 A 20181115; JP 6722616 B2 20200715; US 11345337 B2 20220531; US 2021086756 A1 20210325; WO 2018186252 A1 20181011

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